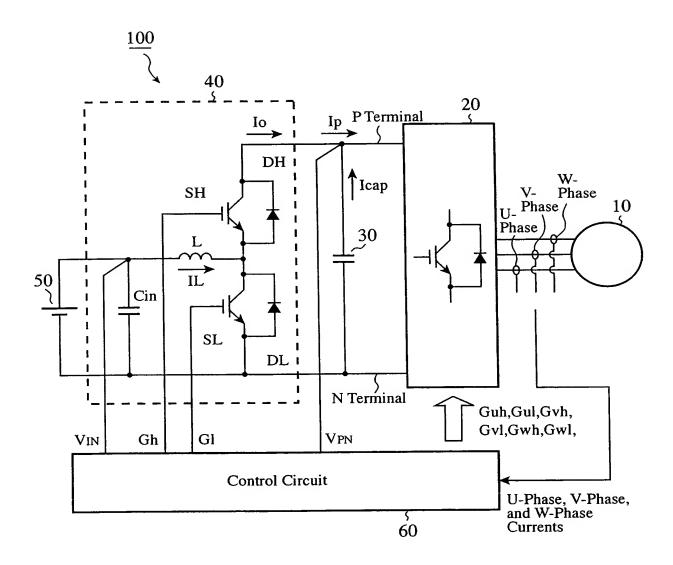
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FIG.1



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FIG.2

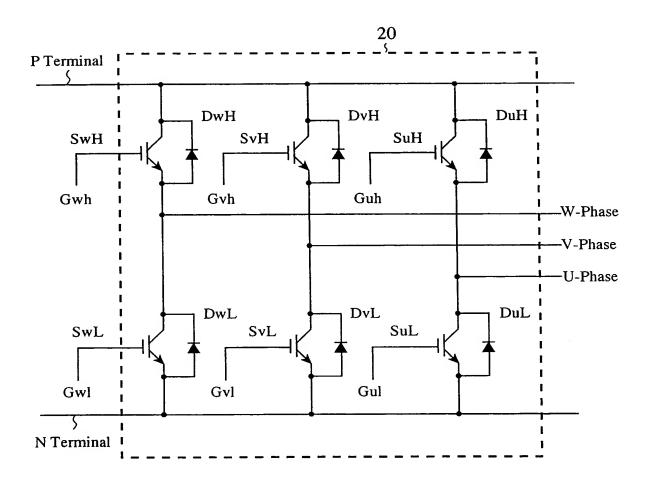


FIG.3

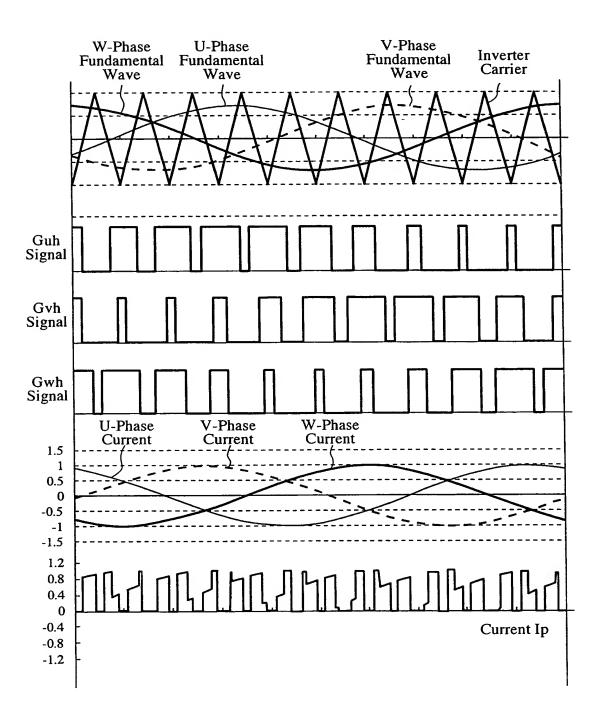
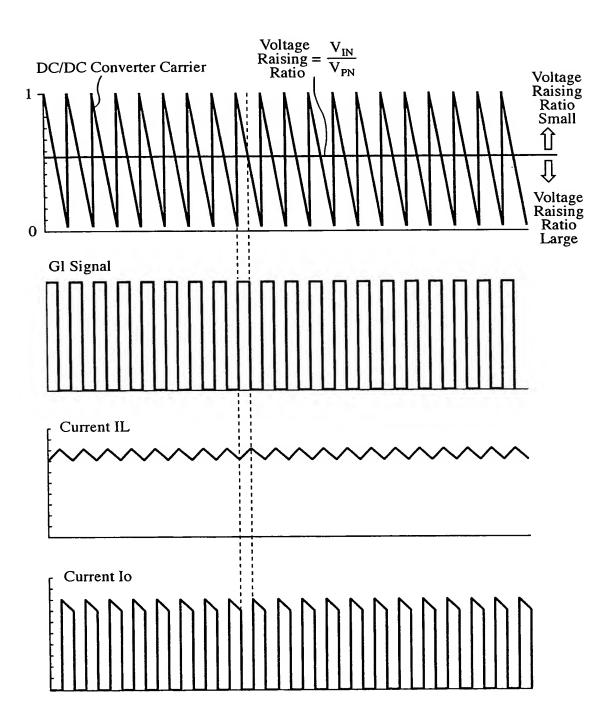


FIG.4



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FIG.5

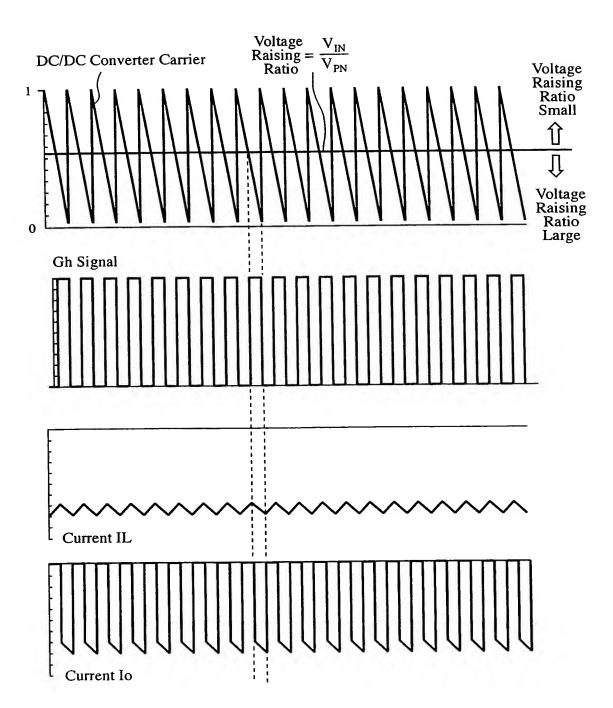


FIG.6

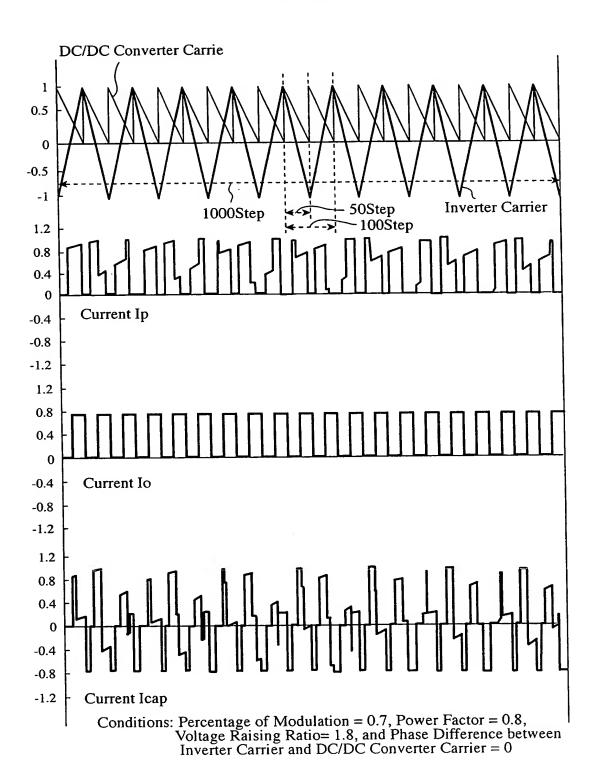
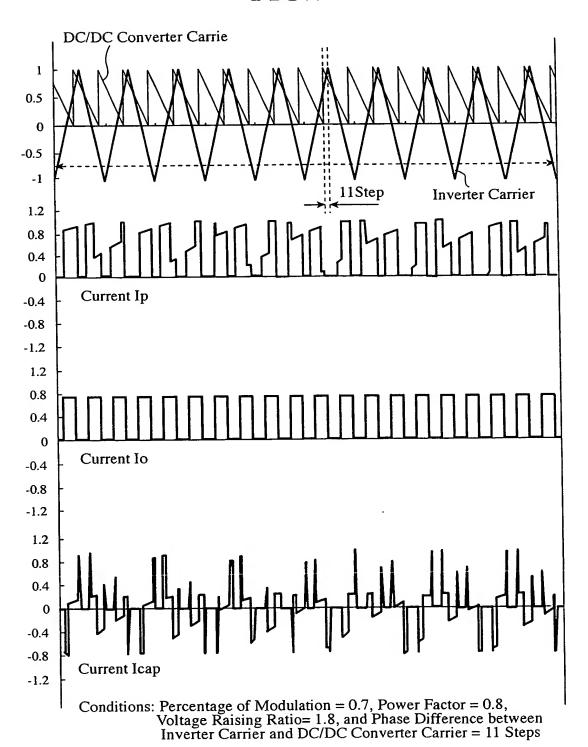


FIG.7



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FIG.8

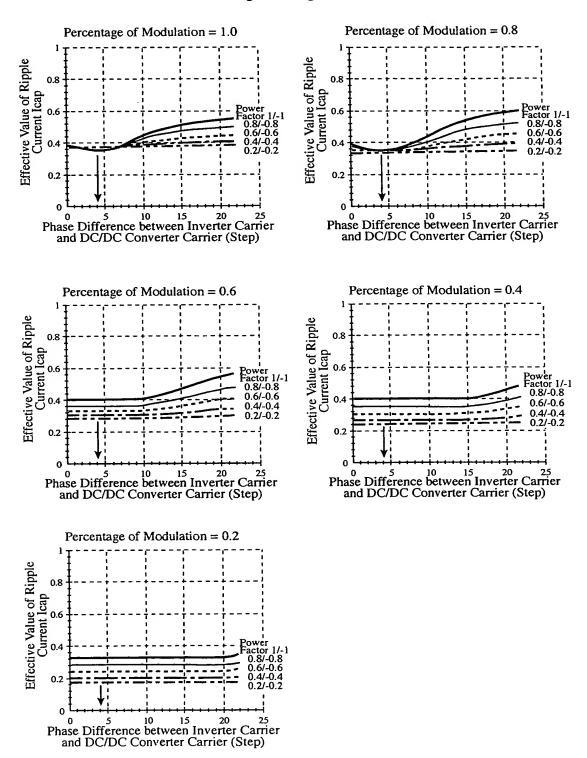
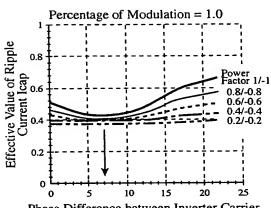
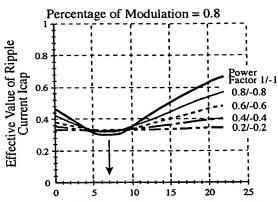


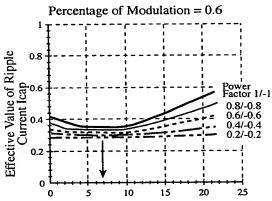
FIG.9



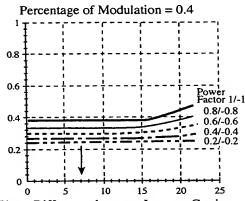
Phase Difference between Inverter Carrier and DC/DC Converter Carrier (Step)



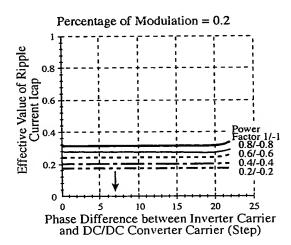
Phase Difference between Inverter Carrier and DC/DC Converter Carrier (Step)



Phase Difference between Inverter Carrier and DC/DC Converter Carrier (Step)

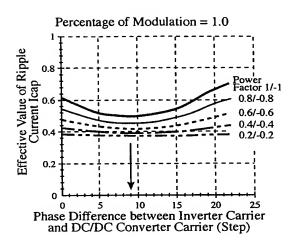


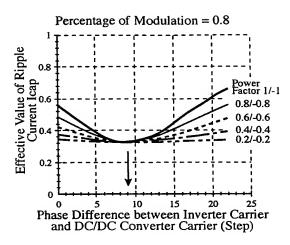
Phase Difference between Inverter Carrier and DC/DC Converter Carrier (Step)

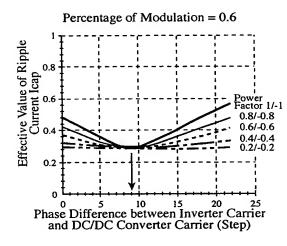


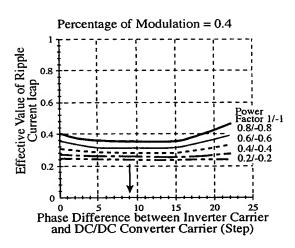
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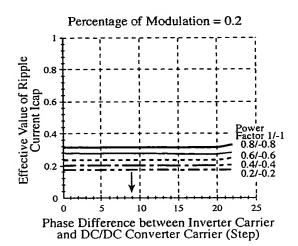
FIG.10





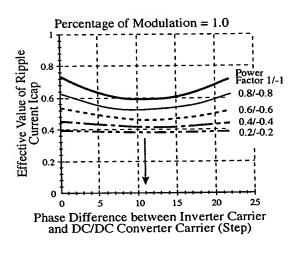


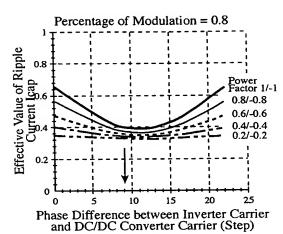


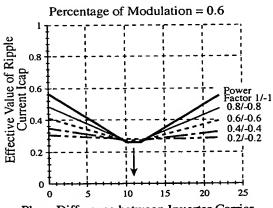


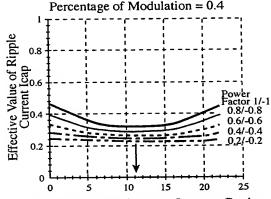
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FIG.11



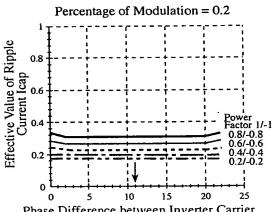






Phase Difference between Inverter Carrier and DC/DC Converter Carrier (Step)

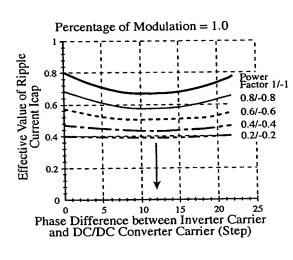
Phase Difference between Inverter Carrier and DC/DC Converter Carrier (Step)

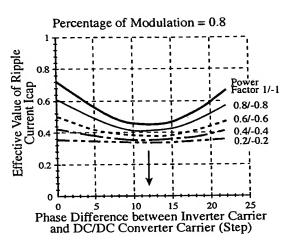


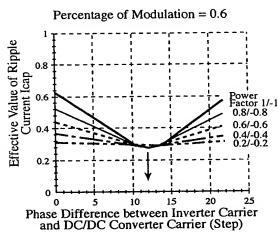
Phase Difference between Inverter Carrier and DC/DC Converter Carrier (Step)

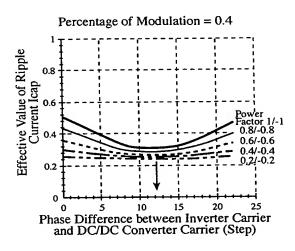
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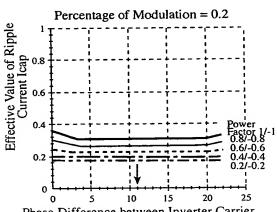
FIG.12







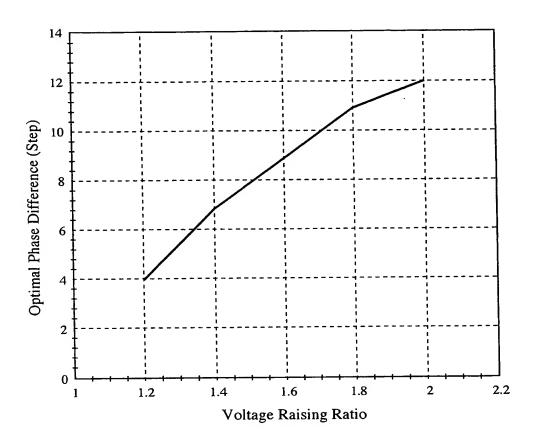




Phase Difference between Inverter Carrier and DC/DC Converter Carrier (Step)

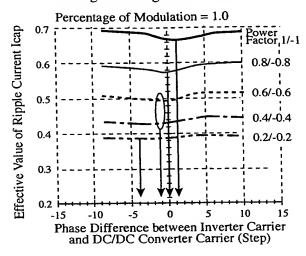
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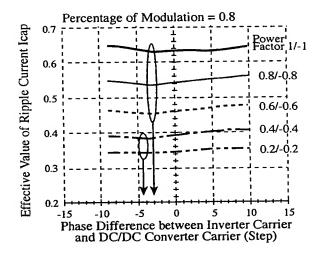
FIG.13

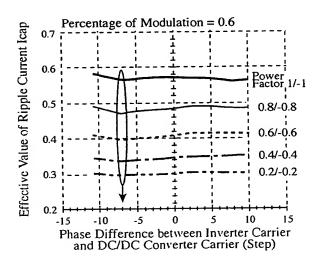


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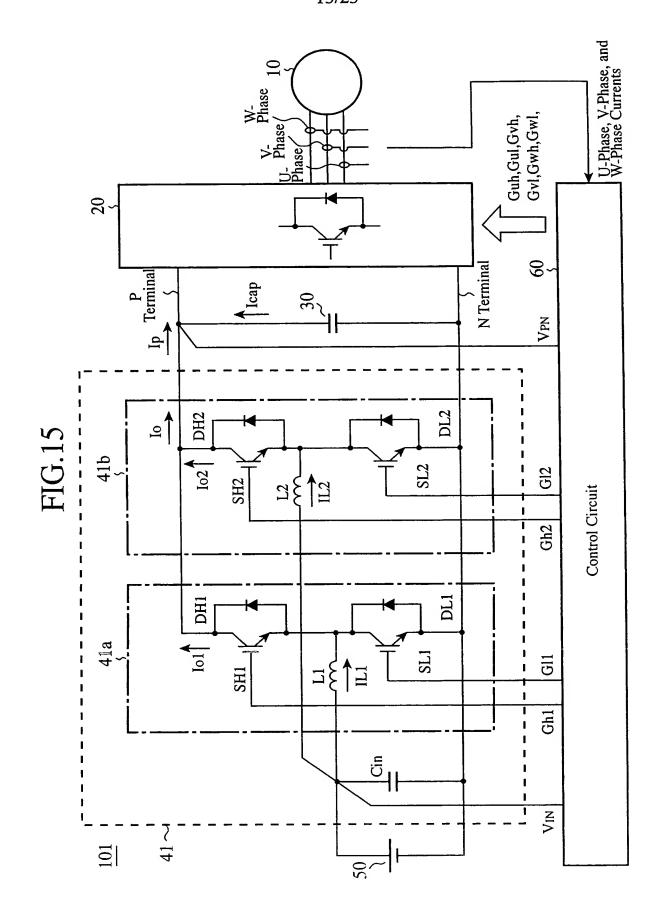
FIG.14

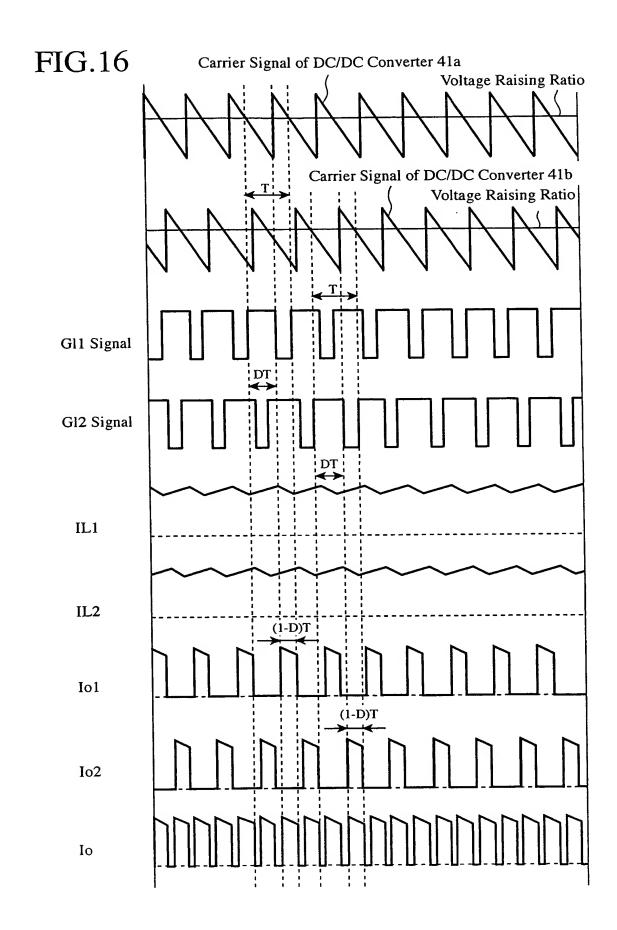






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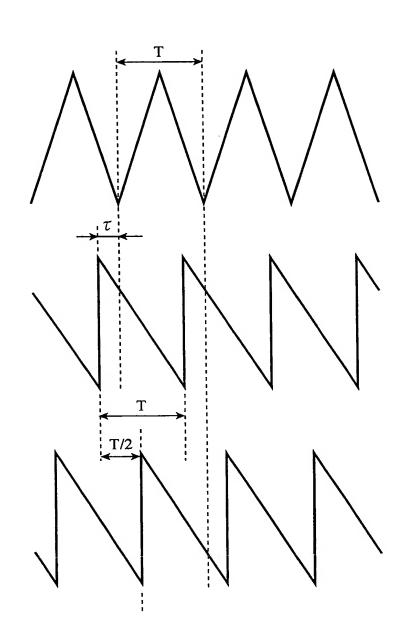
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FIG.17

Carrier Signal of Inverter 20

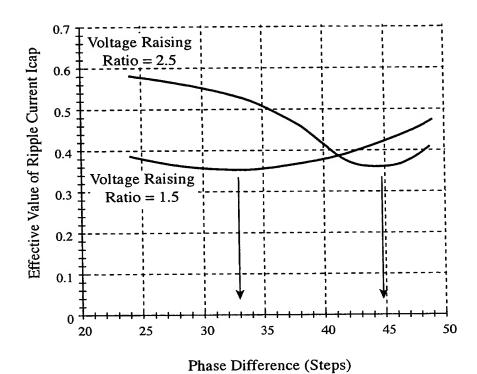
Carrier Signal of DC/DC Converter 41a

Carrier Signal of DC/DC Converter 41b



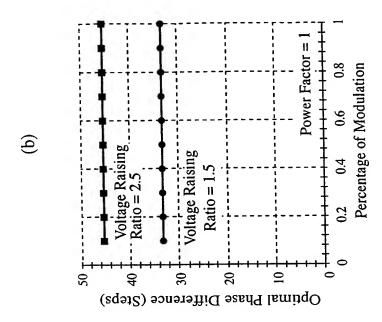
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FIG.18





(a)



Voltage Raising Ratio = 1.5

Optimal Phase Difference (Steps)

Voltage Raising Ratio = 2.5

50 7-

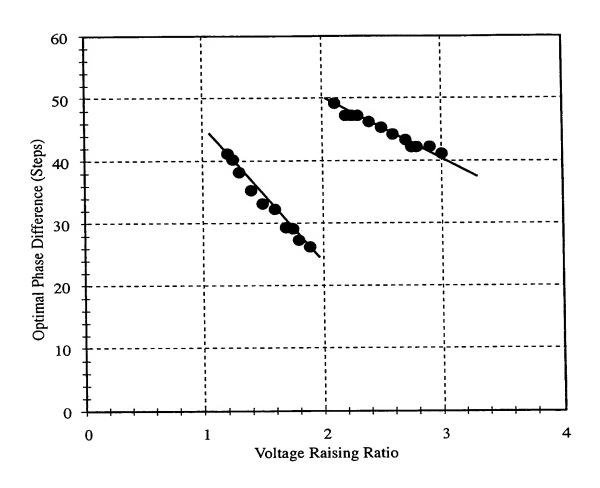
Percentage of Modulation = 1

Power Factor

0.2

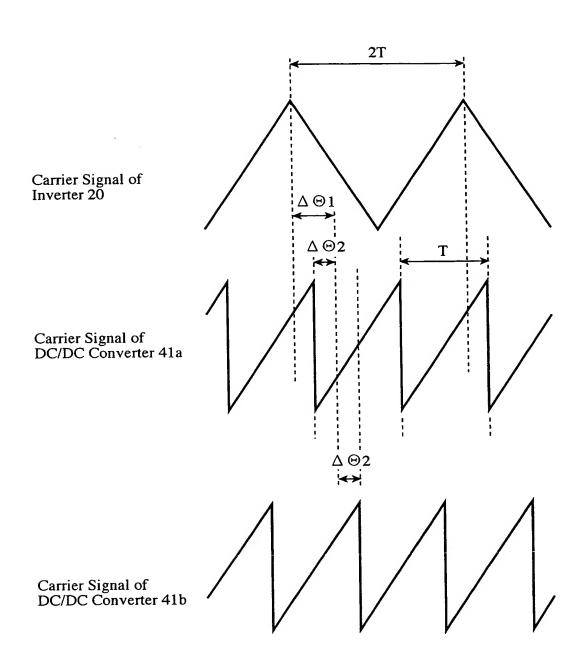
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FIG.20

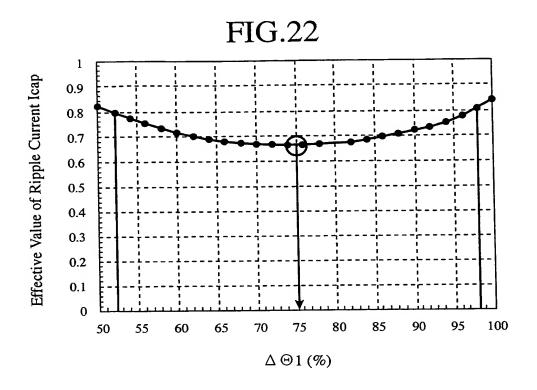


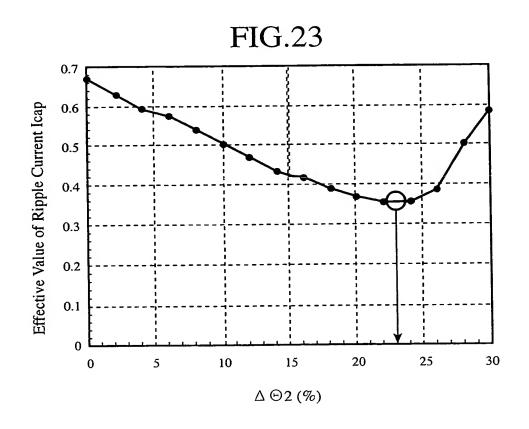
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FIG.21

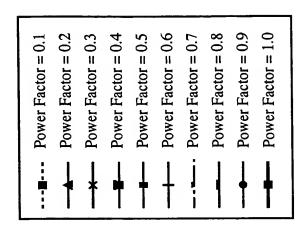


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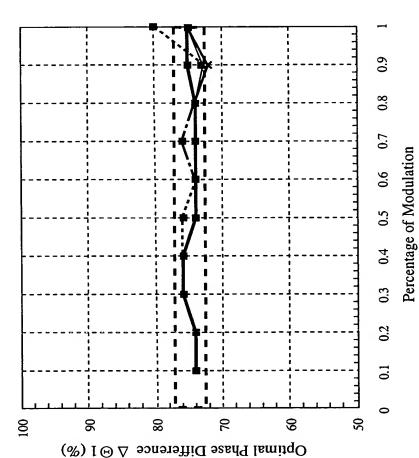


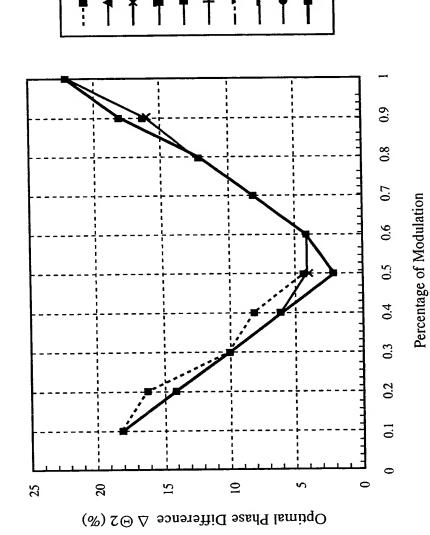
FIG.24

Power Factor = 0.6

Power Factor = 0.7

Power Factor = 0.1 Power Factor = 0.2 Power Factor = 0.3 Power Factor = 0.4 Power Factor = 0.8 Power Factor = 0.9 Power Factor = 1.0





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